

NPIC/TSSG/RED-1831-69  
29 September 1969

MEMORANDUM FOR THE RECORD

SUBJECT: Active Rear Projection Screens - [REDACTED]

1. On Tuesday, 25 March 1969, [REDACTED] asked me to contact Mr. [REDACTED] relative to some research work being conducted by the [REDACTED] on active rear projection screens employing liquid crystals.

2. [REDACTED] upon first contact, promised that he would advise me when the [REDACTED] people were ready to give a presentation in the Washington area. This occurred in early July and, due to my involvement on another contract, [REDACTED] attended the [REDACTED] presentation at the Ames Building on 30 July 1969.

3. The gist of this presentation, as reported by [REDACTED] was that [REDACTED] was using company funds to conduct research on this as yet not clearly understood phenomenon, which involved varying the voltage (60V) on the screen substrate and thereby realizing a profitable variation in the screen characteristics. Claims were made of at least a 5 to 8X increase in resolution or approximately 100 line pairs per millimeter. Liquid crystals were used in the construction of the screen rather than dipoles as in the [REDACTED] approach. To date, only a 4X4 inch sample had been produced and the screen characteristics such as brightness, distribution lobe, resolution, gain, etc., had not been accurately measured. Also, the life of the liquid crystals had not been determined.

4. An invitation was extended by [REDACTED] and [REDACTED] of [REDACTED] to visit their laboratory in [REDACTED] at our convenience, to monitor their progress in this effort.

[REDACTED]  
TSSG/RED/SRB

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